

FORD

Series 765 Backhoe



OPERATOR'S MANUAL

FOREWORD

Your new backhoe has been designed, built and tested to assure the highest quality, give maximum strength and long life for every part.

This manual has been prepared to assist you in the proper break-in, daily care, and operation of your new Series 765 Backhoe. It contains specific information on its many features; the attachments that are available; instructions for making minor repairs and adjustments; safety precautions; general specifications; suggested operating techniques; the pre-delivery and 50-hour check lists.

Your Ford Series 765 Backhoe has been carefully inspected before leaving the factory and again before leaving your Ford Tractor-Equipment Dealer prior to delivery to see that it is "ready to go." To keep it in this "ready to go" condition, it is important to follow regularly scheduled service periods as recommended in this manual.

When referring to the backhoe, all reference to left and right are as viewed from the operator's seat while facing rearward, which is normal for backhoe operation.

Read this manual carefully before operating your Ford Series 765 Backhoe and keep it in a convenient location for future reference. If, at any time, you have a service problem concerning your new backhoe, remember that your Ford Tractor-Equipment Dealer has trained service personnel, genuine Ford parts, and the necessary tools and equipment to best satisfy your service needs.

"Ford Motor Company, whose policy is one of continuous improvement, reserves the right to make changes in design and specifications at any time without notice and without obligation to modify units previously built."

ISSUED TO:	ISSUED BY:
_____ Owner's Name	_____ Ford Tractor-Equipment Dealer
_____ Mailing Address	_____ City
_____ City	_____ State
_____ State	_____ Zip Code
_____ Zip Code	_____ Delivery Date

PARTS AND SERVICE CATALOGS AVAILABLE

Ford Tractor Operations is pleased to announce the availability of parts and service catalogs to owners of Ford tractors and equipment.

To obtain these catalogs merely fill out the order form available from your local authorized Ford Tractor-Equipment Dealer. Mail with your remittance to Helm, Inc. Your order will be processed promptly.

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SAFETY PRECAUTIONS

The following precautions are suggested to help prevent accidents.

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. Read and take the following precautions before operating this tractor to help prevent accidents. Equipment should be operated only by those who are responsible and instructed to do so.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a rollbar and seat belt, see your Ford Tractor Equipment Dealer.
3. Always use the seat belt with the roll bar. Do not use the seat belt if the roll bar has been removed from the tractor.
4. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
6. Replace all missing, illegible, or damaged safety decals. See list of decals.
7. Keep safety decals clean of dirt and grime.

SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow the pressure to escape before removing the cap entirely.
2. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for the engine to cool before refueling.
3. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
4. Keep open flame away from battery or cold weather starting aids to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
 - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop engine and relieve pressure before connecting or disconnecting lines.
 - Tighten all connections before starting engine or pressurizing lines.
7. If fluid is injected into the skin obtain medical attention immediately as gangrene may result.
8. Do not attempt to service the air conditioning system. It is possible to be severely frostbitten or injured by escaping refrigerant. See your dealer for service.

9. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford Tractor-Equipment Dealer.
10. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any part of the fuel injection system. Failure to follow these instructions can result in serious injury.
11. Continuous long term contact with used engine oil has caused skin cancer in animal tests. Avoid prolonged skin contact with used engine oil. Wash skin promptly with soap and water.

OPERATING THE TRACTOR

1. Apply the parking brake, place the transmission in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating controls.
3. Do not bypass the neutral start switch. Consult your Ford Tractor-Equipment Dealer if your starter safety controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Do not get off the tractor while it is in motion.
5. Shut off the engine and apply the parking brake before getting off the tractor.
6. Always apply the parking brake and remove the start key when leaving the unit parked or unattended.
7. Never leave the unit when it is parked on an incline. Always park on level ground where possible. If the unit is to be parked on an incline, always lower the bucket so that the cutting lips contact the ground, apply the parking brake, and securely block the wheels.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can suffocate you.
9. If power steering or engine ceases operating, stop the tractor immediately.

DRIVING THE TRACTOR

1. Drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches, slopes and when turning to avoid upsets.
2. Lock tractor brake pedals together when transporting on roads to provide two wheel braking.
3. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hill.
4. Any towed vehicles whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.

5. When the tractor is stuck or tires are frozen to the ground, back out to prevent upset.
6. Always check overhead clearance especially when transporting the tractor.

LOADER/BACKHOE OPERATION

1. Always be sure of water, gas, sewage and electrical line locations before you start to dig.
2. Watch out for overhead and underground high-voltage electrical lines when operating the loader or backhoe.
3. Operate the loader or backhoe controls when properly seated at the controls.
4. Never attempt to lift loads in excess of loader or backhoe capacity.
5. Always lower the loader and backhoe buckets to the ground, shut off the engine and apply the parking brake before getting off the unit.
6. Always be watchful of bystanders when operating the loader, when lowering the stabilizers, or when operating the backhoe.
7. Use care when operating on steep grades to maintain proper stability. Always carry the bucket as low as possible.
8. Never attach chains, ropes, cables, etc. to the loader or backhoe for pulling purposes.

LOADER OPERATION

1. Do not transport anyone in the loader bucket.
2. Always carry the loader bucket low for maximum stability and visibility, whether the bucket is loaded or empty.
3. Always use the recommended amount of counterweighting to ensure good stability.
4. Be careful when handling round objects such as round bales, poles, etc. Lifting too high or rolling bucket too far back could result in these objects rolling rearward down the loader arms on the operator.
5. Never allow anyone to get under the loader bucket or reach through the lift arms when the bucket is raised.
6. Exercise caution when operating the loader with a raised loader bucket or fork.

BACKHOE OPERATION

1. Never allow anyone to get under the backhoe bucket when the bucket is raised.
2. To prevent upsets avoid full reach and swinging the backhoe bucket to the downhill side when operating on a slope.
3. Watch out for overhead and underground high-voltage electrical lines when operating the backhoe.
4. Do not enter the platform from the rear.
5. Always attach the backhoe transport chains before transporting the unit.
6. Always place the torque converter shuttle lever in neutral before operating backhoe.

MAINTENANCE

1. Never make repairs or tighten hydraulic hoses or fittings when the system is under pressure, when the engine is running, or when the loader or backhoe cylinders are under a load.
2. Always keep the brakes and power steering system in good operating condition.
3. Do not lubricate or make mechanical adjustments while the unit is in motion or when the engine is running. However, if minor engine adjustments must be made, apply the parking brake, securely block the wheels, and use extreme caution. Be certain that the loader is fully lowered or supported so that it cannot fall.
4. For safe operation, observe proper maintenance and repair of all pivot pins, hydraulic cylinders, hoses, snap rings, and main attaching bolts prior to each day's operation.
5. Always wear safety goggles when servicing or repairing the machine.
6. When necessary to tow the tractor, do not exceed 5 mph (8.0 kph). Avoid towing the tractor over long distances.
7. Adequately block up the backhoe or loader when they are detached from the tractor.
8. Whenever servicing or replacing pins in cylinder ends, buckets, etc., always use a brass drift and a hammer. Failure to do so could result in injury from flying metal fragments.

DIESEL FUEL

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as fuel tank. **Do not use these blends.**
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a Ford approved cap. A non-approved cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

Whenever you see this symbol



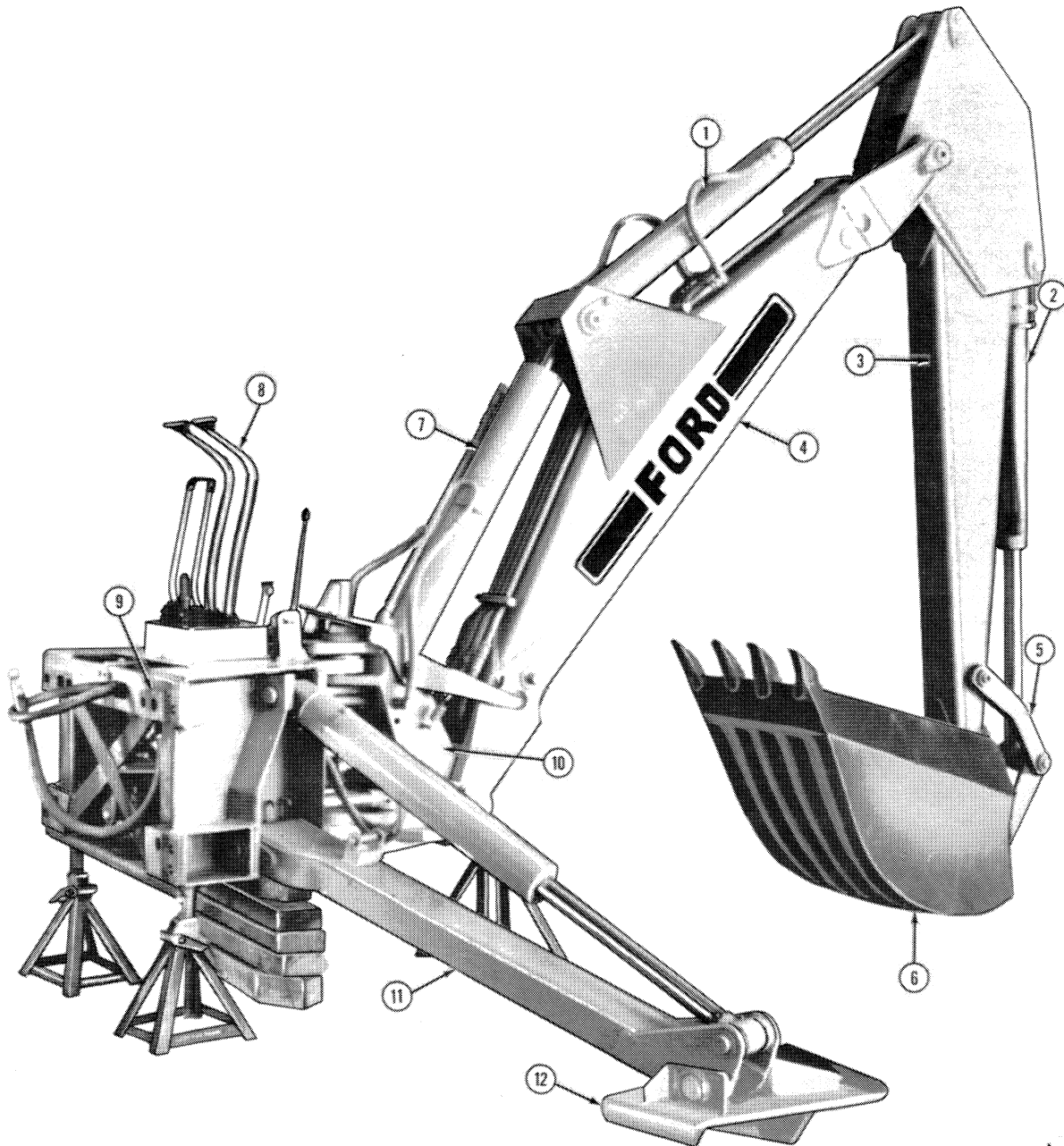
it means: **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

GENERAL INFORMATION

GENERAL

The Ford Series 765 Backhoe, Figure 1, are offered in three sizes, 12 ft., 14 ft. and 15 ft.

Some backhoe models and options are available only on certain industrial tractor models, such as 14 ft. and 15 ft. backhoes equipped with extendible dipsticks.



L-12409

Figure 1
Series 765 Backhoe

- | | | | |
|--------------------|-------------------|-------------------|--------------------|
| 1. Crowd Cylinder | 4. Boom | 7. Lift Cylinder | 10. Swing Post |
| 2. Bucket Cylinder | 5. Bucket Linkage | 8. Control Levers | 11. Stabilizer |
| 3. Dipstick | 6. Bucket | 9. Main Frame | 12. Stabilizer Pad |

CONTROLS

CONTROLS

Each model backhoe may be ordered in either two lever controls, Figure 2, or four lever controls, Figure 3.

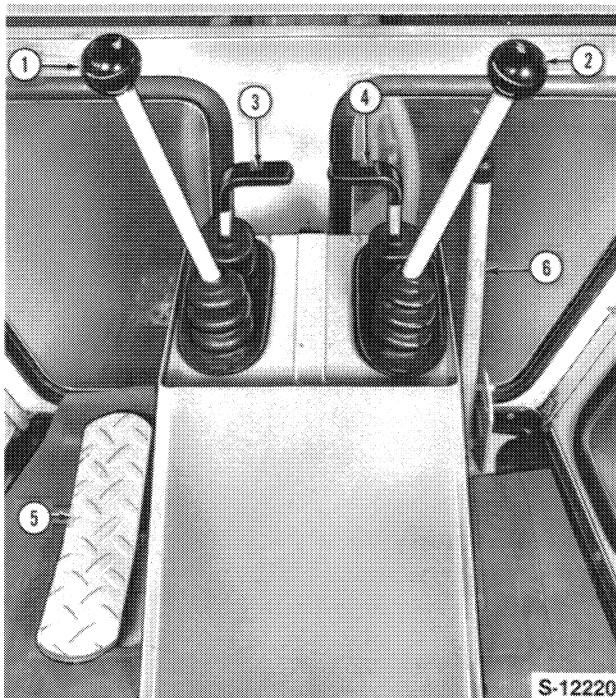


Figure 2

Backhoe Controls (Two Lever)

- | | |
|------------------------------|---|
| 1. Swing and Boom
Lever | 4. Right Stabilizer
Lever |
| 2. Bucket and Crowd
Lever | 5. Extendible Dipstick
Pedal Control |
| 3. Left Stabilizer Lever | 6. Boom/Swing
Transport Lock
(Disengaged) |

The easiest way to remember the various lever positions is to relate bucket and stabilizer movement to yourself on the backhoe seat. Therefore, all references to left and right hand situations will be made as seen from the backhoe seat. However, when ordering parts all references to left and right hand parts are established as seen from the tractor seat.

The levers can be "feathered" (moved slightly) in all positions, to give you precise bucket control.

Practice the lever movements as you operate the backhoe in one or more of the jobs described in the operating techniques.

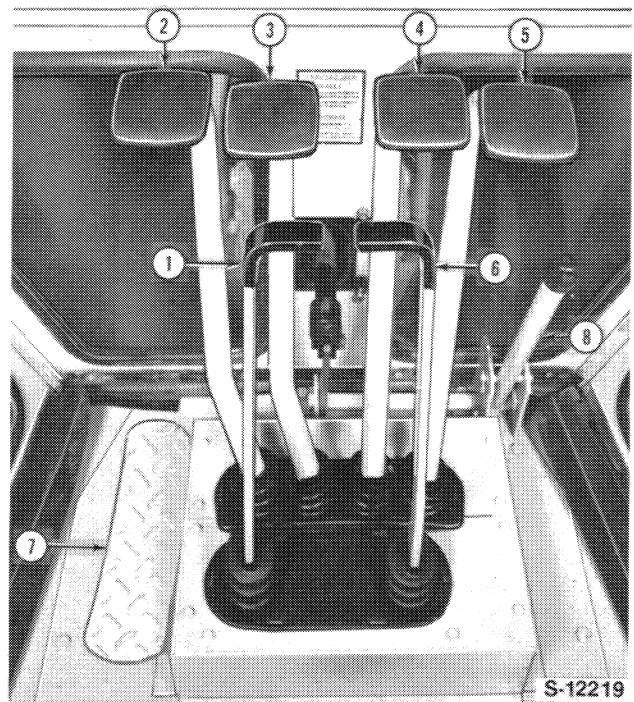


Figure 3

Backhoe Controls (Four Lever)

- | | |
|--------------------------------|--|
| 1. Left Stabilizer Lever | 6. Right Stabilizer
Lever |
| 2. Crowd Lever
(Dipstick) | 7. Extendible Dipstick
Pedal Control |
| 3. Lift Lever (Boom) | 8. Boom/Swing
Transport Lock
(Engaged) |
| 4. Actuating Lever
(Bucket) | |
| 5. Swing Lever | |

Movement of the four or two backhoe control levers results in the following action:

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